



***PRESENTATION TO VRRBAC- 4H Center**

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10-5-05

***PUBLIC WATER DEVELOPMENT**

I. Projects:

***The Phase I Public Water Project:**

- About 7 ½ miles of waterline service to the Route 122 area between Halesford Bridge and Westlake Village
- Service also to Windtree development (Rtes 666 and 948)
- Construction upgrades to public water infrastructure on the Bedford County side of SML in order to provide service to Franklin County.
- Franklin County owns 46% of the water line on Route 655 and 23% of the line on Route 122 in Bedford
- Source water, drawn from Smith Mountain Lake, purchased from Bedford County PSA
- This \$3.4 million project funded by grant and loan funds establishes the County's need for public water from Smith Mountain Lake

***The Forest Hills Water Project:**

- A \$584,170 public water extension south of Rocky Mount, largely funded by grants (75%)
- About 2.5 miles of water line
- Designed for the longterm and for linkage to an eventual Countywide system
- Source water purchased from the Town of Rocky Mount

Water Treatment Plant Studies:

- Anticipated construction cost of \$4.5-5M for a 2.5 million gallon per day plant, exclusive of land purchase
- Anticipated to provide up to a minimum of 2.5 million gallons/day, although it may start smaller plant and grow beyond 2.5 million gallons/day
- To serve countywide in conjunction with other sources and would be permitted and developed as public water demand increases

Other Water Studies:

- Areas of water need include the Route 220-North Corridor and long-range countywide service planning

***II. Operations and Policy Development:**

- Public Works Department created in August 2003
- Public Works works with potential customers on hookups and water extensions by developers and the County
- Public Works is in charge of utility operations, planning, and development plan review for utilities
- Rates, Fees, Policies, and Construction Standards developed and adopted by the Board of Supervisors
- Public water extensions beyond the Phase I public water project anticipated to be addressed by the Board of Supervisors over the coming year
- Integration of developer extensions to new service areas may be considered by the Board of Supervisors.

***SEWER DEVELOPMENT**

Sewer Needs Study for the general Westlake-Hales Ford area (July 2005):

Findings:

- Development in area over the short-term indicate need for 440,000 gallons/day of design flow for sewage treatment; actual usage likely to be 45% of that figure
- Longterm sewage need may reach 2.6 M gallons/day of design flow
- Soils in the study area appear to accommodate non-discharge systems

**Recommendations:*

- Updating future land use plan for the area is a priority, so that sewer utilities tailored to it
- County considering development of standards for sewer design and operation to assure excellence, sustainability, and potential for centralized approach should the County see the need over time
- Non-discharge systems may be supplemented or replaced by central sewer discharge system, if future sewer need indicates
- Feasibility and permitting of a discharging plant would need more consideration by the County and the Virginia-DEQ
- Development proceeding at this time by permitting of non-discharging sewage treatment plants developed by the private sector
- Board of Supervisors is reviewing and providing guidance on planning, policy and any public project development

***FUTURE UTILITIES DEVELOPMENT**

- Operations in the Phase I project area
- Water development and operations in Forest Hills
- Water and sewer development plan studies by the Board of Supervisors
- Funding analyses in conjunction with the County's capital improvements plan, updated yearly

- Areas of water need and stimulation of economic development are priority considerations as the water system grows, and service to areas seeking and supportive of public water extension projects where funding is available